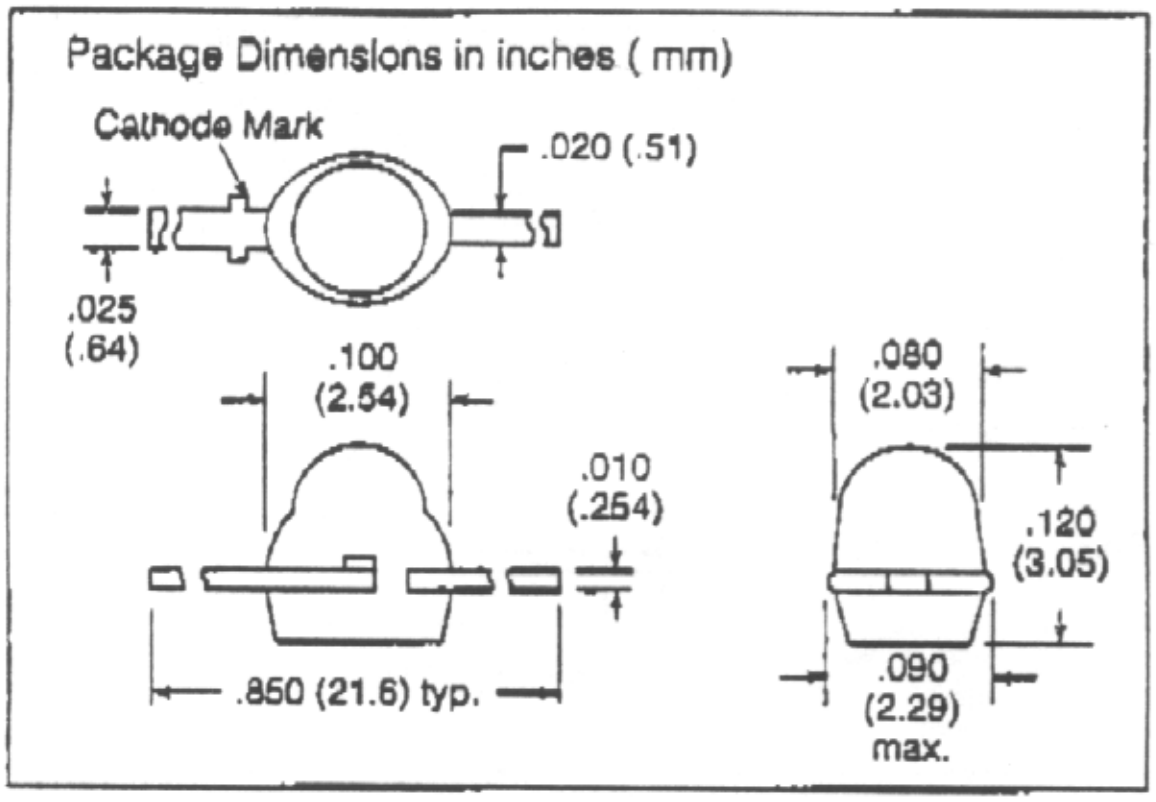
SIEMENS

RRL-5601
RRL-5621
RRL-5641

Red, Resistor, Miniature Axial Lead LED Lamp

FEATURES

- Integral Current Limi ng Resistor
- No External Resistor lequired with 5 Volt Supply
- Miniature Axial Lead ackage
- Red Diffused Lens
- Three Light Intensity langes
- High Reliability



DESCRIPTION

The RRL-5601/-5621/-56 1are gallium arsenide phosphide LED red lam s with integral resistor chips in series with the .ED. This construction allows operation from a 5 volt source without an external current limiting re istor.

Applications include mc nting on PC boards as diagnostic and circuit s itus indicators.

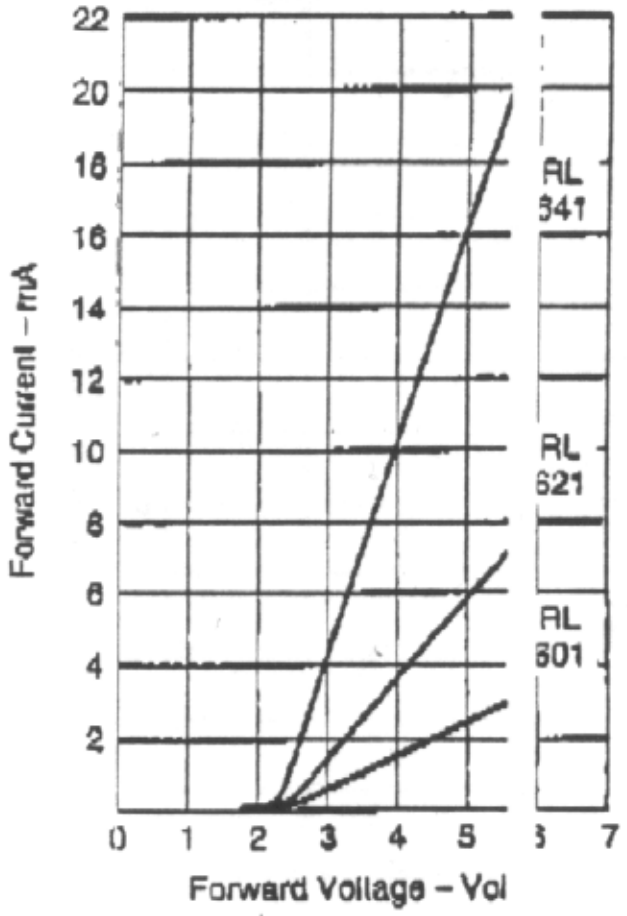
Maximum Ratings

Operating Temperature Range ... −55°C to +100°C
Storage Temperature R nge ..... −55°C to +100°C
Soldering Time, 260°C .063" from case) .... 5 sec.
Reverse Voltage .... 6 V
DC Forward Voltage .... 6 V

Optoelectronic Characteristics (T_A=25°C)

Parameter	Min.	Typ.	Max.	Unit	Test Condition
Wavelength, Peak Emission		650		nm	
Half Angle		20		Deg.	
Forward Current					
RRL-5601	2.0	3.0	4.0	mA	5 V
RRL-5621	4.0	6.0	8.0	mA	5 V
RRL-5641	13.0	16.0	21.0	mA	5 V
Reverse Current		0.1	10	µA	6 V
Luminous Intensity					
RRL-5601	0.3			mcd	5 V
RRL-5621	0.6	1.2		mcd	5 V
RRL-5641	1.0	2.0		mcd	5 V

Forward current versus forward voltage



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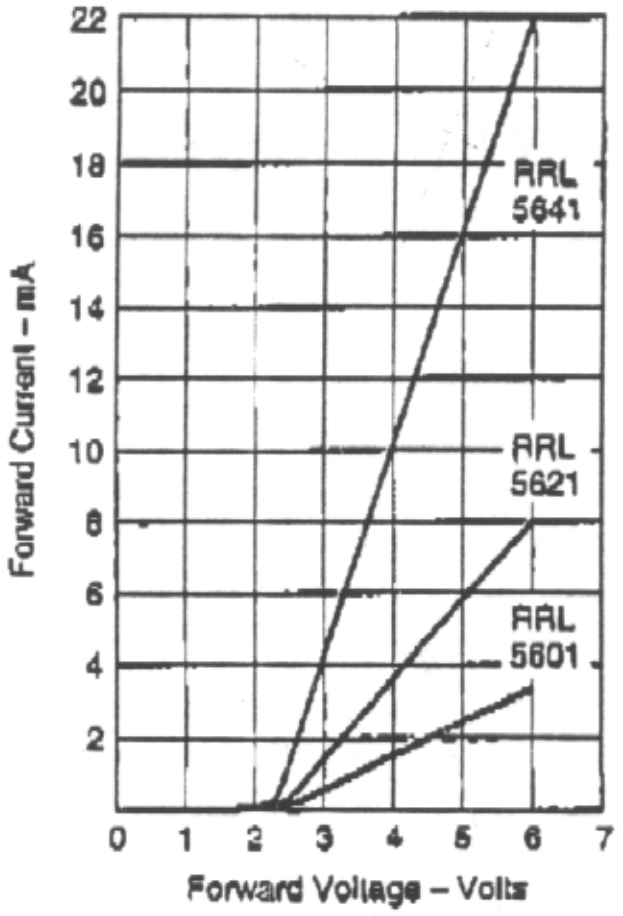

Spectral distribution